MODERN WOMAN GETTING NEARER THE PERFECT FIGURE: Dr. Dudley A. Sargent ...

New York Times (1857-1922); Dec 4, 1910; ProQuest Historical Newspapers: The New York Times pg. SM4

## MODERN WOMAN GETTING NEARER THE PERFECT

Dr. Dudley A. Sargent of Harvard Denies that She Is Getting Masculine, But She Is Getting More Sensible. On the second day, when the runners were corsetted, we found that the average waist girth was 24 inches. The same distance was run each time by all the contestants, and immediately afterward the average heart impulse was found to be 168 beats per minute. By which it was shown that the corsetting had increased the heart action by 16 beats a minute. "One can form some idea of the wear Annette Kellermann and tear on the heart and the physicogical loss entailed upon the system by Who, According to Dr. Sargent, Is "In order to ascertain the effect of Nearest to a Pertight clothing upon respiration, the spirometer was tried. The average natural fectly Proportioned girth of the chest over the ninth rib was 28 inches, and with corsets 26 inches. Woman of the 10,000 Examined. MEN to-day have larger feet narrower hips, and mor ample waists than they had twenty years ago, declares Dr. Dudley A. Sargent, Director of the Hemenway Gymnasium at Harvard University. These conclusions he has reached after study of the physical proportions of 10,-000 women students. Are women therefore more mannish? Dr. Sargent, who was found at the barr Miss Eleanora Sears, One of the Best Known Athletic Women.

like gymnasium at Cambridge which has had a greater influence over American manhood and womanhood than any other institution devoted to physical development, was asked this question. He was in his private office, which was hung with physiological charts, and where a composite statue of a woman, made from the actual measurements of more than 5,000 women students, stood on a block behind his chair. Before speaking he eyed his visitor quizzically. "Well, are they?" he challenged. An-

swering his own questions, he continued: "It is true that in the last twenty years the proportions of women have changed in these three respects. It is a change for the better, I believe, very firmly. The American woman of to-day is become ing more like the Greek ideal of the beau tiful. She substitutes harmonious curves and symmetry for exaggeration of the distinctly feminine characteristics.

But I do not say that she is are smaller than they were a half century themselves accordingly. ago that men are becoming womanish.

a man's way, and to refine woman in a prominent the graceful curve of the pelwoman's way. To produce a nobler race vis was gradually increased by constrict

ing along new lines, it does not mean that they are deteriorating as a sex. Because a woman is three or four inches larger around the waist than her grandmother was at her age does not indicate diers, have worn corsets to enhance the that she is less womanly, does it? The professional woman who works with her is unsexing herself in doing it.

proportions of the woman of half a cen- but it has been the grosser attributes." tury ago were unideal. They were so because they were caused artificially. In the savage state the male and female greatly resemble each other. Go among clothing had upon them. the Indians, some of them, and you can hardly tell man and woman apart. In woman of primitive ages there probably describing these experiments, "and then

waists also were proportionally greater. lived only by grace of the men they were running time was 2 minutes and 30 secable to please. Through centuries of per- onds for each person at each trial. sonal contact with merciless savages, and bold, unscrupulous and egoistic men.

of approbation, which have helped them survive in the struggle for existence. "At the time of the worship of the beautiful by the Greeks, women quickly

Dudley Allen Sargent, Director,

Harvard Gymnasium.

more mannish. She is coming to her discerned the harmonious curves and symnormal development. Neither do I say metrical lines that received the approval that because some proportions of men of the men of that age, and fashioned "Then, as soon as the moral fibre of the

"What are all our Christian Associations Greeks grew lax, the courtesans set the and colleges for except to refine man in fashion. In order to make the hips more we must seek to preserve the peculiarities ing the waist with a many-layered girdle. This custom was carried to such an Dr. Sargent believes that women are extent that Hippocrates 'vigorously re just beginning to come to their birthright. proached the ladies of Cos for too tightly Said he: "Because women are develop- compressing their ribs and thus interfering with their breathing powers.

"For three thousand years the art of corsetting has flourished. Women have laced their children, and men, even solelegance of their figures. Hence in this way women have become overwomanized. mind like a man does not feel that she Their femininity has been exaggerated. It is not the true womanliness that has been No one will deny that the exaggerated nurtured so tenderly for all these years,

Several years ago Dr. Sargent made some experiments upon a dozen young women to ascertain what influence tight

"They were to run 540 yards in their loose gymnasium garments," he says in and since the hips of the woman were so on. In order that there should be no unmuch wider than those of the man, the usual excitement of the heart, or depression after the first test, the second trial "In the early history of the race women was made on the following day. The

to the entire system? The tightly cor-"Before the test of the first day we setted woman throws away 20 per cent. nerve centres, and other parts of the found that the average heart impulse was of the fresh air that she breathes. women have acquired certain mental 84 beats to the minute; after running the

women are narrower in the hips than they were twenty years ago, but I wish to make myself clear that this is due bone formation of the pelvis has suffered distance of twelve and one-half miles, narrower hips—tend to make woman manno change. It is natural that woman Dr. Sargent measured her. He only renish. True womanliness lies far deeper should be broader at this part of the body for the proper fulfillment of her "Another sex peculiarity that must be

preserved is the bust. There are many men and women living to-day who have suffered all their lives because they were

ley, Radcliffe, Smith, and Vassar have 140 cubic inches. come many hundreds of business-like "Some of the measurement cards, which he has utilized abled Miss Pitonoff to accomplish this ings she is mannish. If she chooses to

Several years ago he directed the model-Several years ago he directed the model-ing of two nude figures, which represented quick metabolism of youth, less body surthe typical male and female, as found among college students. The ages selected than most girls of her age; muscles covwere between eighteen and twenty-five cred with a layer of fat; favorable anavears. H. H. Kitson of Boston he chose to model the male figure, and Miss Theo tion; peculiar stroke; prolonged practice Alice Ruggles, who is now Mrs. Kitson. he chose to model the female figure. Never has Dr. Sargent found either the

ideal male figure or the ideal female figure, he says. Among the many thousands who have been examined at the gymnasium, not one has fulfilled every requirement. Annette Kellermann, the professional swimmer, whom he examined not long ago, is near the ideal type, he Dr. Sargent's measurements of Miss

Kellermann are as follows: Weight, 137 pounds; height, standing, 64.5 inches; neight, sitting, 34.6 inches; height to knee, 16.3 inches

neck, 12.6 inches; chest 33.1 inches; chest, full, 35.2; ninth rib, 82.7; ninth rib, full, upper arm, 12; forearm, 0.4; wrist, 6.9; shoulder, 36.6.

bdomen, 5.9; head, 7.9.

Girth measurements: Head. 21.3 inches

Depth measurements; Chest, 7.9 inches;

Breadth measurements: Head, 5.9 inches; Sargent's composite measurements. neck, 3.7; shoulder 15.4; walst, 8.7; hlps. Mrs. Kitcon said "yes" immediately, 13.6; length of arm, 16.5; shoulder to el- when asked if women were becoming more

Rose Pitonoff,

Champion Long

DistanceSwimmer,

Whose Remark-

able Physical

Characteristics Were Specially Studied by Dr.

Sargent.

and she wears a number 3 shoe. The well-trained young woman is su- Avenue, than she would have been twenty

perior to the well-trained boy in swim- years ago.

The Secret states At the age of "Women twenty years ago were disfifteen, he says, she will surpass him torted by their dress. They wore bustles, every time. Of the physical characteristics they laced their stays tightly. They did of little fifteen-year-old Rose Pitonoif, everything to conform to an ideal which who has won the championship in long in itself was hideous. Women have dedistance swimming not only from adult veloped in so many ways, mentally as men but from Annette Kellermann, he has well as physically. made a special study.

&c., were obtained the day she made her

Her measurements are as follows: Age, 15 years 4 months; weight, 114 ly or not depends upon the way in which pounds; height, 4 feet 10 inches; height, she uses it.

sitting, 31; girth of head, 21½; girth of neck, 12½; girth of could use their physical strength to better suffered an children. When the sitting, 31; girth of need, 32%; girth of could use their physical strength of child need artificially, the race child need artificially, the race child need, 12%; girth of chest, 82%; girth of advantage than in their militant actions, advantage than in their militant actions, advantage than in their militant actions, girth at ninth rib, full, 81%; waist, 25%; Please don't think that I am not. I

face for radiation in proportion to weight tomical structure; slow returning circulain swimming; unemotional nature; good moral courage and steadfastness of purthe object in view." But Dr. Sargent refuses to say women

as a class are superior to men as long distance swimmers. The crux of the matstanding cold. The adult female, he says, larger waist that Dr. Sargent speaks of. weight for weight with the adult male. probably dissipates less heat than the male for him beautiful?" Mrs. Kitson shook because of her relative abundance of sub- her head. "I cannot say that she was. cutaneous fat. Should the athletic man She was the average woman. She was not ecover from his contempt for fat, he says, ne would prove the equal, if not the superior, of women in swimming.

look from the aesthetic point of view?

bow, 14; elbow to tip, 16.7; stretch of graceful. "The proportions of the Greek statues are still taken as standards of In some instances the girth measure- beauty," she began, "and I am sure the ments from right limbs are slightly larger women of to-day are becoming more like than those of left, as is often the case, them. Venus de Milo would be much Miss Kellermann's foot is 9 inches long less conspicuous now, were she to adopt the present fashions and walk down Fifth

"No, I should not say that the three A week after her famous swim from changes that Dr. Sargent speaks of-the Charlestown Bridge to Boston Light, a larger feet, the more ample waist, and the nish. True womanliness lies far deeper grets that no observations as to body than mere physical proportions. It is in weight, temperature, condition of heart, her manner, in her thought, and in her relation toward other people. A woman may have as much strength, relatively of course, as a man. Whether she is woman-

greater emphasis upon breast feeding."

Dr. Sargent, who is the foremost authority upon the physical development of women, has collected measurements of over 10,000 women students. From Wellesberg, 140 cubic freches arms, 193-5; capacity of lungs, is womanly or not depends upon the way law Radeliffe Smith, and Vassar have in which she uses that strength. If she "Some of the factors which have enchooses to break windows of public buildremarkable athletic performance," says use it in her home, and there is an opportunity for all the strength and physical

> "Do you see the changes that Dr. Sargent mentions in your own models?" Mrs. Kitson was asked. She paused thoughtfully before answering.

endurance that a woman has in her own

sphere, she is showing womanhood

"In a measure, yes, though models are habits of living, supplemented by high in a separate class. It is their profession to preserve characteristics which will pose, and a determination to accomplish make them of service to the sculptor in ealizing his ideal. If I were to walk down the street, however, and select a woman from the crowd whom I believed most representative of the women of toter, he believes, is the question of with- day. I am sure that she would have the

"Was the typical woman that I modeled the woman who had made a specialty of physical beauty. The measurements were taken from college students, and some of Is woman's new athletic development the many individual models were what beautiful? Dr. Sargent declares that it they call grinds. No, she was not ideal s normal, and he asseverates that it is in any way. Though I suppose that you not mannish. How does the new type would grant that she was a rather goodlooking young woman. I should say that Probably no one is better qualified to the model which Dr. Sargent found to be answer that question than the sculptor typical fifteen years ago was undeof the feminine type represented in Dr. veloped."

was no waist line as we know it to-day, run the same distance with their corsets When corsets were worn the average lung that age it is a question of time an capacity was 134 cubic inches; when the amount and degree, rather than quality. corsets were removed the test showed As a general rule girls need more exercise an average lung capacity of 167 cubic than they get, not because they should 35; waist, 26.2; hips, 37.8; thigh, 22.2;

'Now is there any doubt," continued traits, such as ability to please and love heart impulse was 152 beats to the minute. Dr. Sargent emphatically, "that the larger waist is not an improvement. True beauty consists of symmetrical and proportionate development of parts with adipose enough to cover the angles and hol- Paris. lows. The skater, the fencer, or the them. They are subjected to all the inpremiere danseuse will have this style of conveniences that the men are subjected development, if she exercises wisely. It to. They are exposed to all the bitter may be attained by such exercises as running, walking, rowing, swimming, tennis,

> and respiration are not impeded by tight "The hipless women of the fashion plates," he continued, "with the larger waist, indicates that woman is progressing. The styles to-day are far more sensible than they were twenty years ago. What is exaggerated and less refined in woman's figure is now considered unfashionable. And this is due to woman's

aroused determination for a normal phy-

or gymnastics where the lower limbs and

body are actively used and the circulation

sical development. been another bugbear in the way of her in the civilized world women already outadvancement. This is none less than the number men. Why should she not have proprieties.' At Wellesley College, sev- an equal chance to perfect herself phyeral years ago the Physical Director, sically, mentally, and morally?

Miss Lucille Eaton Hill, had the greatest, and morally?

"Each sex in its higher development difficulty in getting members of the col-should preserve its own peculiarities. No lege crew to wear bloomers and use the greater calamity could befall a race than sliding seats that the men use. It was considered 'unladylike.' Previously the for the woman to approximate a man's students, I am told, rowed while they physique would be a bad thing. were wearing stiff corsets, and exhibitions found them gowned in silks and muslins and wearing sashes. Prejudices like this they grow more slowly after the age of

age any exercise that will benefit a boy tion.
will be just as valuable to a girl. Between "F ten and fourteen years of age girls should quired certain differences in the woman

inches—a gain of 33 cubic inches. Who have greater muscular strength, but becan estimate the value of this difference cause of the good influence that we! upper arm. 12: forearm. 0.4: wrist, 6.9: developed muscles have upon the brain, system.

Champion Strong

Putting the Shot.

Woman of Smith College,

"Is there danger of making the future woman masculine, Dr. Sargent?' "I cannot say. When a woman does a man's work, she becomes mannish. For instance, take the women cab drivers in Coarsening influences surround weather. And more than that, their occupation calls for the exercise of the

heavier, coarser muscles "Many of them look like men. And it is no wonder that they become unsexed. There is a physician in England who has made an exhaustive study of the effects of overexertion among women. In this country, though, I cannot think of any parallel to the case of the woman cab

"The great question is not, Shall woman do man's work? That is answered, She shall not. What we are worrying over just now is. What is woman's work? How much of the work now done by man is "Besides improper corsetting there has not as rightfully hers as his? You know

assimilation of the sexes. Any tendency

"Anthropometrists have shown women are smaller than men, and that still persist, though to not such great fourteen. They also complete their growth wo years earlier. According to biology, "Should girls and boys engage in the same exercises?" Dr. Sargent was asked, ment is necessitated by the reserve of "Yes," he said. "Up to ten years of vital power to meet the cost of reproduc-

"Preparations for maternity have retake lighter exercise, and they should also from the man. The woman is relatively take trequenter periods of rest. After broader is the hips. I have stated that

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